



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1448B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	09/954,623
Filing Date	September 12, 2001
First Named Inventor	Pustejovsky, James D...
Art Unit	2152 2144
Examiner Name	Unassigned
Attorney Docket Number	019497-000710US

RECEIVED  
DEC 13 2001  
Technology Center 2100**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GAJ	AA	US-5,243,520	9/7/93	Jacobs et al.	
	AB	US-5,794,050	8/11/98	Dahlgren et al.	
	AC	US-5,799,268	8/25/98	Boguraev	
	AD	US-5,895,464	4/20/99	Bhandari et al.	
	AE	US-6,154,213	11/28/00	Rennison et al.	
	AF	US-6,175,828	1/16/01	Kuromusha et al.	
	AG	US-6,182,062	1/30/01	Fujisawa et al.	
	AH	US-6,212,494	4/3/01	Boguraev	
	AI	US-6,233,547	5/15/01	Denber	
	AJ	US-6,272,495	8/7/01	Hetherington	
	AK	US-6,278,996	8/21/01	Richardson et al.	
GAJ	AL	US-6,292,771	9/18/01	Haug et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	AM					

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
GAJ	AN	ANICK, PETER, et al., "An Application of Lexical Semantics to Knowledge Acquisition from Corpora," Proceedings of 13 <sup>th</sup> International Conference on Computational Linguistics, Helsinki, Finland, pp. 7-12, 1990.	
GAJ	AO	GRISHMAN, RALPH, et al., "Acquisition of Selectional Patterns," Proceedings of the 14 <sup>th</sup> International Conference on Computational Linguistics, (COLING-92), Nantes, France, pp. 658-664, 1992.	
GAJ	AP	JACOBS, PAUL S., et al., "The Tipster/Shogun Project," Proceedings of the Tipster Phase I Final Meeting, pp. 209- 221, September 19-23, 1993.	
GAJ	AQ	PUSTEJOVSKY, JAMES, "The Generative Lexicon," Association of Computational Linguistics, Vol. 17, No. 4, pp. 409-441, 1991.	

Examiner Signature	G. ARTHUR - JEANGAUDE	Date Considered	11-22-04
-----------------------	-----------------------	--------------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

DE 7054798 v1

O I P E  
DEC 10 2001

PTO/SB/08B (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		Complete if Known	
		Applicant Number	09/954,623
		Filing Date	September 12, 2001
		First Named Inventor	Pustejovsky, James D...
		Art Unit	2152 2144
Examiner Name	Unassigned		
Attorney Docket Number	019497-000710US		
Sheet	2	of	2

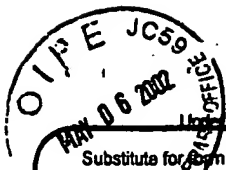
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup> <small>Kind Code<sup>5</sup> (if known)</small>			
GAJ	AR		PUSTEJOVSKY, JAMES, "The Generative Lexicon," MIT Press, Cambridge, MA., 1995.			
GAJ	AS		SALTON, GERARD, et al., "Automatic Structuring and Retrieval of Large Text Files," Communications of the ACM, Vol. 37, No. 2, pp. 97-108, February 1994.			
GAJ	AT		SALTON, GERARD, "Developments in Automatic Text Retrieval," Science, Vol. 253, pp. 974-980, August 1991.			
GAJ	AU		TUTTLE, HOWARD, et al., "Evaluation of an Inference Network-Based Retrieval Model," ACM Transactions on Information Systems, Vol. 9, No. 3, pp. 187-222, July 1991.			
GAJ	AV		WEISCHEDEL, RALPH, et al., "BBN: Description of the PLUM System as Used for MUC-5," Proceedings of the 5 <sup>th</sup> Message Understanding Conference, pp. 93-107, August 25-27, 1993.			

Examiner Signature	G. ARTHUR - JEANGLAUDE	Date Considered	11-22-04
--------------------	------------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.  
DE 7054798 v1



Substitute for Form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of

Complete if Known

Application Number 09/954,623  
Filing Date September 12, 2001  
First Named Inventor James D. Pustejovsky  
Art Unit 2152  
Examiner Name Unassigned  
Attorney Docket Number 019497-000710US

RECEIVED

MAY 10 2002

Technology Center 2100

## U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
GAT	AA	US 5,863,940		10/5/99	Liddy et al.	
	AB	US				
	AC	US				
	AD	US				
	AE	US				
	AF	US				
	AG	US				
	AH	US				
	AI	US				
	AJ	US				
	AK	US				
	AL	US				
	AM	US				
	AN	US				
	AO	US				
	AP	US				
	AQ	US				
	AR	US				
	AS	US				
	AT	US				

COPY OF PAPERS  
ORIGINALLY FILED

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
GAJ	AU	EP	0 386 825	12/9/90	BSO/BURO VOOR SYSTEEMONTWIKKELING B.V.		
	AV	WO	97/08604	6/3/97	Syracuse University		
	AW						
	AX						
	AY						
	AZ						

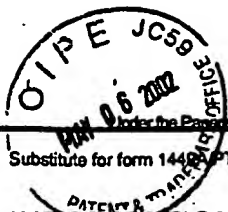
Examiner Signature G. ARTHUR - JEANG/AUDE Date Considered 11-22-04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

DE 7068915 v1



Substitute for form 1449A PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2**

of

Compl to If Kn wn

Application Number	09/954,623
Filing Date	September 12, 2001
First Named Inventor	James D. Pustejovsky
Art Unit	2152
Examiner Name	Unassigned
Attorney Docket Number	019497-000710US

**RECEIVED**

**MAY 10 2002**

Technology Center 2100

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>a</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
	BA					
	BB					

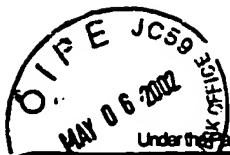
COPY OF PAPER'S  
ORIGINALLY FILED

Examiner Signature	<b>G. ARTHUR - JEANG/AUDE</b>	Date Considered	<b>11-22-04</b>
-----------------------	-------------------------------	--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231  
DE 7068915 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 0498/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3

of

**Complete if Known**

Applicati n Numb r	09/954,623
Filing Dat	September 12, 2001
First Named Inv ntor	James D. Pustejovsky
Art Unit	2152
Examiner Name	Unassigned
Attorney Docket Number	019497-000710US

MAY 10 2002

Technology Center 2100

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
GAJ	BC	LI LI, et al., "Parsing Unification Categorical Grammar with Object-Oriented Knowledge," IEEE 1994, pp. 33-39	
GAJ	BD	LIDDY, ELIZABETH D., et al., "Linguistic-Conceptual Approach to Document Detection," NIST Special Publication, Gaithersburg, MD, NO. 500-207, 1993, XP-000892980, pp. 113-129	
GAJ	BE	LIDDY, ELIZABETH D., et al. "Dr.-Link System: Phase I Summary," Proceedings of the Tripster Text Program Phase I Workshop, April 1994, pp. 93-110	
	BF		
	BG		
	BH		
	BI		
	BJ		
	BK		
	BL		
	BM		

Examiner  
Signature

G. ARTHUR - JEANG-AUDE

Date  
Considered

11-22-04

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.  
DE 7068915 v1